The EDMI range of innovative products includes digital meters, advanced infrastructure and energy management systems.

With over 30 years industry experience, we ensure all of our products are technologically proven and manufactured to the highest quality. The entire EDMI product range is reliable, upgradable and accurate.

The EDMI Atlas platform forms the core of each of the products in the EDMI smart metering system. Designed around a low power, yet powerful and flexible metering engine, all of the products share the same robust logging and communications functionality.
Mk10D

Advanced Three Phase Electronic Meter with Disconnect and Reconnect Feature

Atlas Series — Class 1 and Class 2

Measurement
- Class 1 and Class 2
  [MID Class B and Class A]
  - Compliance with IEC 62052-11, 62053-21, 62053-23
  - Compliance with AS 6052.11, 62053-21, 62053-23
  - Three-phase four wire with 120A disconnect switch

Voltage and Power Supply
- Nominal voltage: 220V – 240V
- Operating range: 178V – 278V
- Withstand: 0 – 290V
- Burden: <10VA/phase @ Vn
- WC range: 10/100A
- Current:
  - Standard top row I/O
  - Up to four I/O total, independent with 4kV isolation
  - Options include: passive/active inputs, 50/60SFET/relay outputs
  - Passive input voltage: 5V, 12V, 48V, 110V, 240V
  - Active input voltage: 12V
  - 50 Output: 27V, 27mA maximum
  - 50 Output: 240V, 2A
  - Programmable output pulse width: 1ms to 100ms

Power Quality Indication
- Total Harmonic Distortion (THD)
- Unbalance (sequence components)
- Waveform download

SAG/SWELL
- Five cycle resolution
- Records time/date/phase/duration/average and worst excursion
- Programmable trigger levels

Inputs/Outputs Configuration
- Standard top row I/O
  - Up to four I/O total, independent with 4kV isolation
  - Options include: passive/active inputs, 50/60SFET/relay outputs
- Programmable output levels

Load Survey/Profile
- AMI Ready
- 2.1 megabytes of non-volatile memory
- Over 7200 days (30 years) storage (two channels, 30-minute intervals)
- Up to 32 channels
- Intervals programmable from one to 60 minutes
- Two independent surveys
- Energy, instantaneous readings, pulsing inputs as channel sources
- Ability to store average/minimum/maximum values for interval duration

Time Clock And Calendar
- Accuracy (internal) within ±0.5 cycles
- Time and date accurate to ±0.5 cycles
- Two independent surveys
- Intervals programmable from one to 60 minutes
- Up to 61 billing periods plus billing totals
- Block or rolling maximum demand
- Energy, pulsing inputs
- Time of maximum demand

Energy, instantaneous readings, pulsing inputs as channel sources
- Energy, pulsing inputs

Environmental
- Operating range: -25°C to 60°C
- Limit range: -40°C to 75°C
- Storage range: -40°C to 80°C
- Relative humidity: Up to 75% mean, 95% non-condensing for 30 days
- Ingress protection: IP54, UL50C [3R]
- Salt spray resistant [IEC 60068-2-11]

Large LCD Display
- Large seven segment display
- Display digit size: 10.7mm (H)
- Display digit size: 10.7mm (H)
- Up to 60 user-defined screens of any meter parameter
- Definable enunciators
- Display available even without mains power

Software
- EDMI EziView software available for meter programming and reading (Windows Vista/XP/2000)
- EDMI EziView software available for large scale AMI and AMR Solutions (Windows Vista/XP/2000)
- Supported by many popular third-party multi-vendor AMR systems

Communications
- Three independently working communication ports
- Option for DLMS COSEM (IEC 62056)
- Optical port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18)
- RS-232 with modem power supply (2G/3G supported)
- RS-485 multi-drop (two or four wire RJ45 or two wire Screw terminal)
- UDP/IP/PPP/GPRS capable
- Compatible with ZigBee SEP 1.x

Tamper Detection and Alarms
- Provision for sealing with conventional wire or plastic seals
- Bypassing current and reverse current
- Advanced tamper detection and logging
- Pre-programmed alarms for meter self-check
- Alarms trigger LEDs, enunciators, relay outputs or communications event
- Alarms are stored in event logs

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